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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

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Applicant's or agent's file reference	FOR FURTHER ACTION	SeeNotificationofTrar Examination Report (	nsmittalofInternationalPreliminary Form PCT/IPEA/416)	
nternational application No. PCT/KR2003/001263	International filing date(day/mo 27 JUNE 2003 (27.06.20		ty date (day/month/year) JNE 2002 (27.06.2002)	
nternational Patent Classification (IPC IPC7 G03B 41/00				
Applicant  AGENCY FOR DEFENSE D	EVELOPMENT et al			
and is transmitted to the applica	ent according to Article 36.		al Preliminary Examining Authority	
2. This REPORT consists of a total of sheets, including this cover sheet.  This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total ofsheets.				
3. This report contains indications relating to the following items:  I X Basis of the report  II Priority  III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  IV Lack of unity of invention  V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  VI Certain documents cited  VII Certain defects in the international application  VIII Certain observations on the international application				
Date of submission of the demand	D	ate of completion of this	report	
26 JANUARY 20	04 (26.01.2004)	18 OCTOBER 2	004 (18.10.2004)	
Name and mailing address of the II  Korean Intellectual Pr  920 Dunsan-dong, Sec  Republic of Korea	operty Office o-gu, Daejeon 302-701,	Authorized officer  KIM, Sang Hee	P1.5074	
22-42-472-7140	17	Telephone No. 82-42-48	31-0214 "Manager"	



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No. PCT/KR2003/001263

				report	
1.	Wi			to the elements of the international application:*	
	X	] 1	the int	ernational application as originally filed	
				scription:	, as originally filed
					, filed with the demand
			pages	, filed with the letter of	
	Г	٦	the cl	aims:	, as originally filed
	_	لـ	pages	, as amended (together with any	statment) under Article 19
ı			pages	Cl. 1. 21 the letter of	, filed with the demand
			pages	, filed with the letter of	
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pages			page		, as originally filed , filed with the demand
				s, filed with the letter of	
2	. ,	Wit	h rega	rd to the language, all the elements marked above were available or furnished to this Auth	ority in the language in which
the international application was filed unless otherwise indicated under this item.					
	_	The		ments were available or furnished to this Authority in the following language Engli	
			the	language of a translation furnished for the purposes of international search (under Rule 23	.1( <i>0))</i> .
1	[	X	the	language of publication of the international application (under Rule 48.3(b)).	instign(under Rules 55.2 and/
	[			language of the translation furnished for the purposes of international preliminary exam 55.3).	mation (mider reases sold and
	3.	W	ith re	gard to any nucleotide and/or amino acid sequence disclosed in the international appliary examination was carried out on the basis of the sequence listing:	
	contained inthe international application in written form.				
		一		ed together with the international application in computer readable form.	
	furnished subsequently to this Authority in written form.				
١		늗	ı 1 fü	mished subsequently to this Authority in computer readable form	
The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in					
1	The statement that the information recorded in computer readable form is identical to the written sequence listing has				written sequence listing has
		<u> </u>	bر آ	en furnished.	
	4	_	٦	ae amendments have resulted in the cancellation of:	
	4.	L	7 <u>'</u> ,	¬	
				the description, pages the claims, Nos	
			Ļ	the drawings, sheet	
1	5.		L	<u></u>	
	Э.		] ]	his report has been established as if (some of) the amendments had not been made, sing beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	ce they have been considered to
	*	in	eplace this o	ment sheets which have been furnished to the receiving Office in response to an invitation vinion as "originally filed." and are not annexed to this report since they do not contain.	under Article 14 are referred to in amendments (Rules 70.16
	**	* A	ny rep	lacement sheet containing such amendments must be referred to under item I and annexed	l to this report.

#### INTERNATIONAL PRELIMINARY EXAMINATION

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement Novelty (N)	Claims Claims	1-10	YES NO	
	Inventive step (IS)	Claims Claims	1-10	YES NO	
	Industrial applicability (IA)	Claims Claims	1-10	YES NO	

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 4983837 A (Cooper et al.) 8 Jan. 1991 D2: WO 98/03882 A (SFIM Industries) 29 Jan. 1998

D3: US 6359681 A (Housand et al.) 19 Mar. 2002

- 1. Regarding Novelty:
- 1.1 The subject matter of the claim 1 of the present application is a line of sight scanning method for a turret aided continuous zoom camera characterised in defining equations to determine scan width, scan rate, and scan trajectory.

The subject matter of D1 is a forward looking infrared imaging system comprised of a reimaging afocal lens system. The purpose of D1 is to modify an existing forward looking infrared imaging system rath than to automatize line of sight scan using a continuous zoom camera as in the present application.

The subject matter of D2 is an observation or sighting system for vehicles comprised of an optical system and sensors for night vision. D1 is characterised in extending the wavelength range for observation or sighting.

The subject matter of D3 is a combined laser/FLIR optics system characterised in an imaging system for improving the ability to recognize, detect, locate, and/or track targets.

None of the cited documents (D1-D3) describe the equations to determine scan width, scan rate, and scan trajectory. Therefore the subject matter of the claim 1 is considered to be new (Art. 33(2) PCT).

As dependent claims of the claim 1, the subject matter of the claims 2-4 is also considered to be new (Art. 33(2) PCT).

1.2. The subject matter of the claim 5 of the persent application is a line of sight scanning appratus for a turret aided continuous zoom camera comprised of a turret sensor module, a multifunctional display unit, a multifunctional control unit, a system electronics unit. It is also characterised in confining scan width and scan rate.

None of the documents (D1-D3) provide the constraints for confining scan width and scan rate. Therefore the subject matter of the claim 5 is considered to be new (Art. 33(2) PCT).

As dependent claims of the claim 5, the subject matter of the claims 6-10 is also considered to be new (Art. 33(2) PCT).

continued...



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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box V.

- 2. Regarding Inventive Step:
- 2.1 The subject matter of the claim 1 is considered to be similar to the subject matter of D1-D3 in that all of them contain optical system and imaging system. However, none of the cited documents disclose or define equations and parameters to determine scan width and scan rate. Furthermore, none of them provide any hint of using such equations and the parameters used.

Therefore the subject matter of the claim 1 seems to involve an inventive step (Art. 33(3) PCT).

As dependent claims of the claim 1, the sibject matter of the claims 2-4 also seems to involve an inventive step (Art. 33(3) PCT).

2.2. The subject matter of the claim 5 is also considered to be similar to the subject matter of D1-D3 for the same reason mentioned above. Again, none of the cited documents provide any hint for using the parameters to determine the scan condition for the system control processor.

Therefore the subject matter of the claim 5 seems to involve an inventive step (Art. 33(3) PCT).

As dependent claims of the claim 5, the subject matter of the claims 6-10 also seems to involve an inventive step (Art. 33(3) PCT).